

**DLA Land and Maritime - VQ**  
**Supplemental Information Sheet for Electronic QPL-50884**

**Specification Details:**

**Date: 9/8/2015**

Specification: MIL-P-50884  
Title: Printed Wiring, Flexible and Rigid-Flex  
Federal Supply Class (FSC): 5998  
Conventional: Yes  
Specification contains quality assurance program: No  
MIL-STD-790 Established Reliability & High Reliability: No  
MIL-STD-690 Failure Rate Sampling Plans & Procedures: No  
Weibull Graded: No  
Specification contains space level reliability requirements: No  
Specification allows test optimization: No

**Contact Information:**

Office of Primary Involvement: Electronic Devices Branch, DLA Land and Maritime - VQE  
Primary Qualifying Activity Contact: 614-692-0627, e-mail: vqe.ls@dla.mil

**Notes:**

Effective 28 February 1999, MIL-P-50884 has been declared "Inactive for New Design". For new design, use MIL-PRF-31032. This is applicable on all acquisitions to which MIL-P-50884 is applied.

Extent of Qualification Paragraph 4.5.3 of MIL-P-50884 extends qualification for a particular type to cover all conductor patterns of that type produced. Qualification of type 4 products shall be extended to cover all other types. Qualification of type 3 products shall be extended to cover types 2 and 1. Qualification of type 2 products shall be extended to cover type 1. Qualification of types 1 and 5 shall apply only to that type. Qualification of any type shall be extended to cover the approved type with a stiffener or solder mask.

a. The last six digits of the Qualification Reference Number (QRN) is the qualification expiration date in "mmddyy" format (e.g., 50884-1234-042211 expires on April 22, 2011).

b. An asterisk (\*) adjacent to the QRN denotes the product was tested for and meets the etchback requirements.

c. An exclamation (!) adjacent to the QRN denotes qualification through Appendix B of MIL-P-50884. There is no qualification expiration date. See QML-31032 for detailed information about this company's capabilities.

d. A pound sign (#) adjacent to the QRN denotes that the qualification vehicle was built using foil lamination technology. The specimen was tested for and meets peel strength requirements.

e. Adhesiveless products tested and manufactured with metal-clad dielectric are covered under slash sheet(s) other than /1 through /4 of IPC-4204.

**Part Configuration:**

Listed by classification type and either adhesive or adhesiveless construction.

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**PART LISTINGS**

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
<b>TYPE 1 WITH ADHESIVES</b>		<b>TYPE 4 ADHESIVELESS</b>	
KCA Electronics, Inc.	50884-31032!	Airborn Flexible Circuits, Inc.	50884-31032*#
<b>TYPE 2 ADHESIVELESS</b>		Amphenol Printed Circuits	50884-31032!*
All Flex, Inc.	50884-3412-060515 (Use A only)	Basic Electronics, Inc.	50884-3599-031416
RACAAR Circuit Industries, Inc.	50884-3481-073115	Career Technologies	50884-3386-071915*
<b>TYPE 2 WITH ADHESIVES</b>		CIMULEC	50884-3739-062816#
All Flex, Inc.	50884-3522-110715	Cirexx International, Inc.	55110-31032!*#
Hans Brockstedt GmbH	50884-31032!	Colonial Circuits, Inc.	50884-31032! (USE A Only)
<b>TYPE 3 WITH ADHESIVES</b>		Cosmotronic	50884-31032!*
Amphenol Printed Circuits	50884-31032!*	Dragon Circuits Inc.	50884-4208-073117*#
Lockheed Martin Mission Systems & Training	50884-31032!*	Eltek, Ltd.	50884-3885-080616
<b>TYPE 4 ADHESIVELESS</b>		Firan Technology Group	50884-31032! (Use A Only)
Accurate Engineering Corp.	50884-4068-040717*#	Flexible Circuits, Inc.	50884-3473-112815*
		FTG Circuits, Inc.	50884-3233-103015*

# **PART LISTINGS**

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## **TYPE 4 ADHESIVELESS**

Graphic Research, Inc.	50884-3729-022816*
Hamby Corporation	50884-31032!*#
Hans Brockstedt GmbH	50884-31032!*#
Johns Hopkins University	50884-3976-031017
KCA Electronics, Inc.	50884-31032!*# (Use A Only)
Lockheed Martin Mission Systems & Training	50884-31032!*
Micropack Limited	50884-3416-090816
Molex Inc. Copper Flex Products	50884-3441-120415*
Murrietta Circuits, Inc.	50884-3846-092016*
PCB Technologies Ltd.	50884-4089-041517*
Pioneer Circuits, Inc.	50884-31032!*#
Printed Circuits, Inc.	50884-31032!*
Speedy Circuits	50884-31032!*#
Teledyne Printed Circuit Technology	50884-3421-090115* (Use A only)
TTM Technologies (Santa Clara, CA)	50884-31032!*
TTM Technologies (Stafford, CT)	50884-31032!*
Viasystems Technologies Corp., LLC - Cleveland	50884-31032!*
Viasystems Technologies Corp., LLC - North Jackson	50884-31032!*

## **TYPE 4 WITH ADHESIVES**

Airborn Flexible Circuits, Inc.	50884-31032*
Cirexx International, Inc.	50884-31032!*
Colonial Circuits, Inc.	50884-31032!* (USE A Only)
Cosmotronic	50884-31032!*
Dragon Circuits Inc.	50884-4003-073117*#
Flexible Circuits, Inc.	50884-4125-103017*#
Hamby Corporation	50884-31032!*#
Pioneer Circuits, Inc.	50884-31032!*#
Teledyne Printed Circuit Technology	50884-3420-090115* (Use A only)
TTM Technologies (Santa Clara, CA)	50884-31032!*
TTM Technologies (Stafford, CT)	50884-31032!*
Viasystems Technologies Corp., LLC - Cleveland	50884-31032!*

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Accurate Engineering Corp. (CAGE Code: 1W538)**

Location: 8710 Telfair Avenue, Sun Valley, CA 91352-2530, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Airborn Flexible Circuits, Inc. (CAGE Code: 38661)**

Location: 11 Dohme Avenue, Toronto, M4B 1Y7, Ontario, Canada

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: All Flex, Inc. (CAGE Code: 0ZGB2)**

Location: All Flex Flexible Circuits, LLC dba All Flex, Inc., 1705 Cannon Lane, Northfield, MN 55057, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Amphenol Printed Circuits (CAGE Code: 57034)**

Location: 91 Northeastern Boulevard, Nashua, NH 03062, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Basic Electronics, Inc. (CAGE Code: 57357)**

Location: 11371 Monarch Street, Garden Grove, CA 92841, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Career Technologies (CAGE Code: 34FS3)**

Location: North America Division, 18634 Parthenia Street, Northridge, CA 91324, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: CIMULEC (CAGE Code: 0YWU1)**

Location: Zone Industrielle Les Jonquieres, 57365 Ennery, France

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Cirexx International, Inc. (CAGE Code: 4MEG7)**

Location: 791 Nuttman Street, Santa Clara, CA 95054, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Colonial Circuits, Inc. (CAGE Code: 6T499)**

Location: 1026 Warrenton Road, Fredericksburg, VA 22406-6200, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Cosmotronic, Inc. (CAGE Code: 63695)**

Location: 16721 Noyes Avenue, Irvine, CA 92606-5176, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Dragon Circuits Inc. (CAGE Code: 5S424)**

Location: 1501 W. Shady Grove Road, Grand Prairie, TX 75050, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Eltek, Ltd. (CAGE Code: S4451)**

Location: P.O. Box 159, Sgoola Industrial Park, Petach-Tikva 49101, Israel

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Firan Technology Group (CAGE Code: L2665)**

Location: 250 Finchdene Square, Scarborough, M1X 1A5, Ontario, Canada

Plants:

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Firan Technology Group (CAGE Code: L2665)**

Location: 250 Finchdene Square, Scarborough, M1X 1A5, Ontario, Canada

1. Plant: Same Address as Manufacturer

**Manufacturer: Flexible Circuits, Inc. (CAGE Code: 22928)**

Location: 222 Valley Road, Warrington, PA 18976-2580, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: FTG Circuits, Inc. (CAGE Code: 30803)**

Location: 20750 Marilla Street, Chatsworth, CA 91311, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Graphic Research, Inc. (CAGE Code: 5K529)**

Location: 9334 Mason Avenue, Chatsworth, CA 91311-5201, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Hamby Corporation (CAGE Code: 07284)**

Location: 27704 Avenue Scott, Valencia, CA 91355-1218, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Hans Brockstedt GmbH (CAGE Code: C4831)**

Location: Lieterplattenschnelldienst, Clara-Immerwahr-Strabe 7, 24145 Kiel, Germany

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Johns Hopkins University (CAGE Code: 88898)**

Location: Applied Physics Laboratory (APL), 11100 Johns Hopkins Road, Laurel, MD 20723-6099, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: KCA Electronics, Inc. (CAGE Code: 1VUH8)**

Location: 223 N. Crescent Way, Anaheim, CA 92801, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Lockheed Martin Mission Systems & Training (CAGE Code: 03640)**

Location: 1801 State Route 17C, Owego, NY 13827, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Micropack Limited (CAGE Code: SAL28)**

Location: Plot#16, Jigani Industrial Area,, Bangalore, 562106, India

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Molex Inc. Copper Flex Products (CAGE Code: 58852)**

Location: 22 Empire Dr., Saint Paul, MN 55103, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Murrietta Circuits, Inc. (CAGE Code: 0EJD7)**

Location: 5000 E. Landon Drive, Anaheim, CA 92807, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: PCB Technologies, Ltd. (CAGE Code: S5725)**

Location: P.O. Box 631, Migdal, 10556, Haemek, Israel

Plants:

1. Plant: Same Address as Manufacturer

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Pioneer Circuits, Inc. (CAGE Code: 65723)**

Location: 3000 S. Shannon Street, Santa Ana, CA 92704-6321, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Printed Circuits, Inc. (CAGE Code: 65114)**

Location: 1200 West 96th Street, Bloomington, MN 55431-2606, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: RACAAR Circuit Industries, Inc. (CAGE Code: 58521)**

Location: 9225-F Alabama Avenue, Chatsworth, CA 91311, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Speedy Circuits, Inc. (CAGE Code: 66982)**

Location: 5331 McFadden Avenue, Huntington Beach, CA 92649-1204, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Teledyne Printed Circuit Technology (CAGE Code: 22958)**

Location: 110 Lowell Road, Hudson, NH 03051, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies (Santa Clara) (CAGE Code: 65916)**

Location: Santa Clara Division, 407 Mathew Street, Santa Clara, CA 95050, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies (Stafford) (CAGE Code: 5L706)**

Location: Stafford Division, P.O. Box 145, 4 Old Monson Road, Stafford, CT 06075, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Viasystems Technologies Corp., LLC - Cleveland (CAGE Code: 7Z463)**

Location: Cleveland Division, 7 Ascot Parkway, Cuyahoga Falls, OH 44223, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Viasystems Technologies Corp., LLC - North Jackson (CAGE Code: 0GN71)**

Location: North Jackson Division, P.O. Box 216, 12080 DeBartolo Drive, North Jackson, OH 44451, US

Plants:

1. Plant: Same Address as Manufacturer